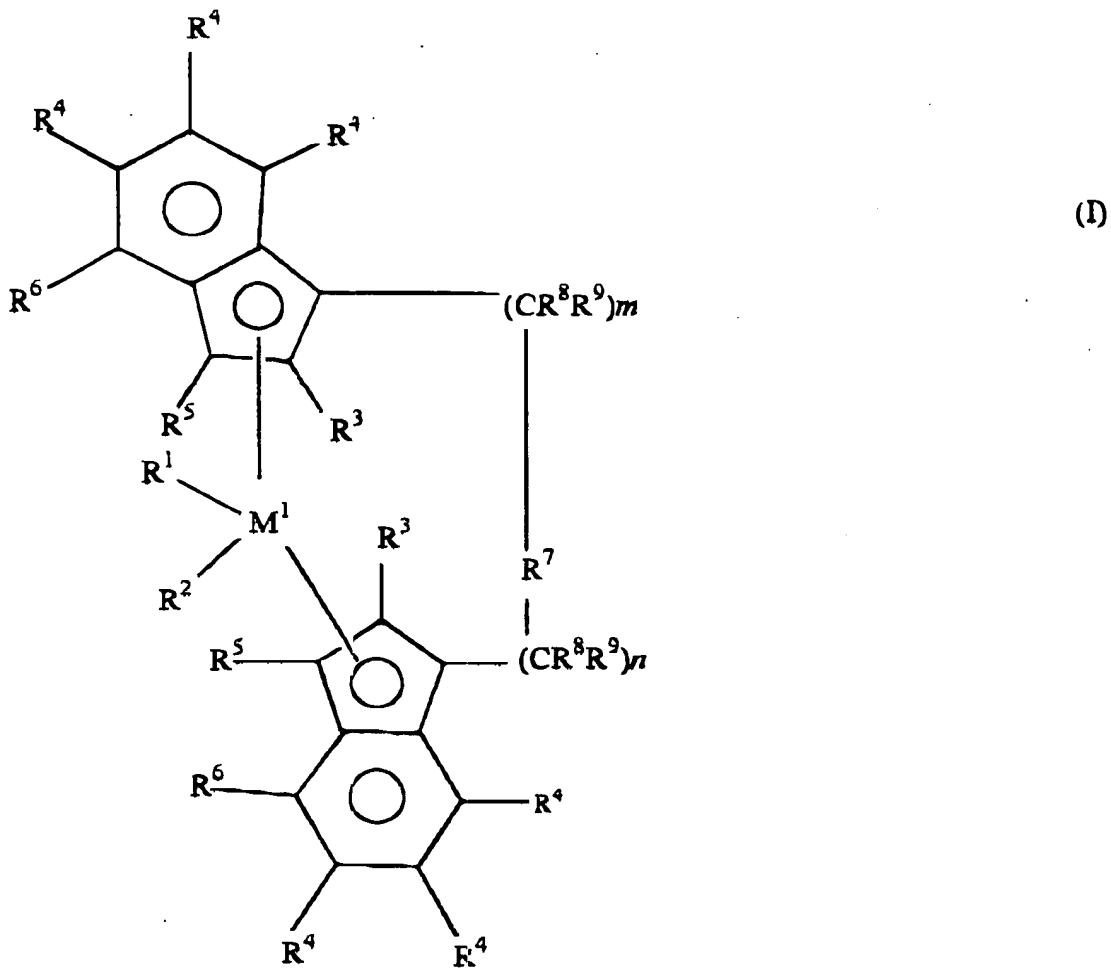


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in which

 M^1 is a metal from group IVb, Vb or VIb of the Periodic Table,

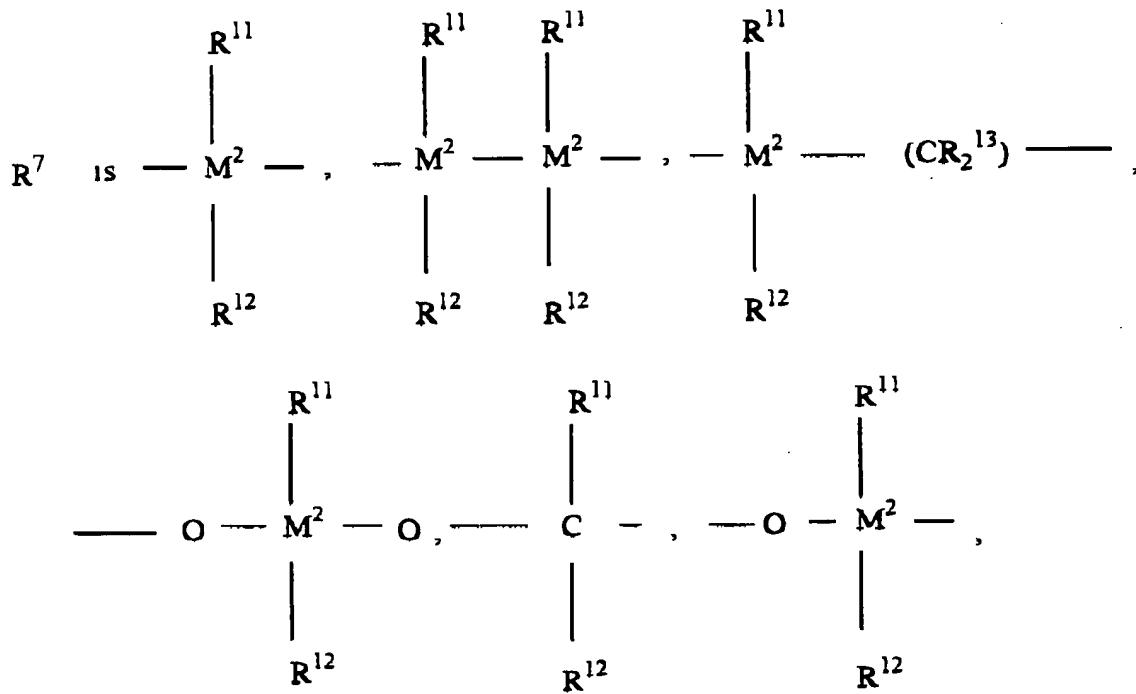
R^1 and R^2 are identical or different and are a hydrogen atom, a C_1 - C_{10} -alkyl group, a C_1 - C_{10} -alkoxy group, a C_6 - C_{10} -aryl group, a C_6 - C_{10} -aryloxy group, a C_2 - C_{10} -alkenyl group, a C_7 - C_{40} -

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arylalkyl group, a C_1 - C_{40} -alkylaryl group, a C_8 - C_{40} -arylalkenyl group or a halogen atom, the radicals R^4 and R^5 are identical or different and are a hydrogen atom, a halogen atom, a C_1 - C_{10} -alkyl group, which may be halogenated, a C_6 - C_{10} -aryl group, which may be halogenated, or an $-NR_2^{10}$, $-SR^{10}$, $-OSiR_3^{10}$, $-SiR_3^{10}$ or $-PR_2^{10}$ radical in which R^{10} is a halogen atom, a C_1 - C_{10} -alkyl group or a C_6 - C_{10} -aryl group, R^3 and R^6 are identical or different and are as defined for R^4 , with the proviso that R^3 and R^6 are not hydrogen,

[or two or more of the radicals R^3 to R^6 , together with the atoms connecting them, form a ring system,]



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[>BR¹¹, >AlR¹¹, -Ge-, -Sn-, -O-, -S-, >SO, >SO₂, >NR¹¹, >CO, >PR¹¹ or >P(O)R¹¹.]

where

R¹¹[, R¹² and R¹³ are identical or] and R¹² are different and are a hydrogen atom, a halogen atom, a C₁-C₁₀-alkyl group, a C₁-C₁₀-fluoroalkyl group, a C₆-C₁₀-aryl group, a C₆-C₁₀-fluoroaryl group, a C₁-C₁₀-alkoxy group, a C₂-C₁₀-alkenyl group, a C₇-C₄₀-arylalkyl group, a C₈-C₄₀-arylalkenyl group or a C₇-C₄₀-alkylaryl group,

R¹³ is a hydrogen atom, a halogen atom, a C₁-C₁₀-alkyl group, a C₁-C₁₀-fluoroalkyl group, a C₆-C₁₀-aryl group, a C₆-C₁₀-fluoroaryl group, a C₁-C₁₀-alkoxy group, a C₂-C₁₀-alkenyl group, a C₇-C₄₀-arylalkyl group, a C₈-C₄₀-arylalkenyl group or a C₇-C₄₀-alkylaryl group,

or R¹¹ and R¹², or R¹¹ and R¹³, in each case together with the atoms connecting them, form a ring,

M² is silicon, germanium or tin,

R⁸ and R⁹ are identical or different and are as defined for R¹¹, and

m and n are identical or different and are zero, 1 or 2, where m plus n is zero, 1 or 2.

B¹ Contd
2 A compound as claimed in claim 1, wherein, in the formula I, M¹ is Zr or Hf, R¹ and R²

are identical or different and are methyl or chlorine, R³ and R⁶ are identical or different and are methyl, isopropyl, phenyl, ethyl or trifluoromethyl, R⁴ and R⁵ are hydrogen or as defined for R³ and R⁶, [or R⁶ forms an aliphatic or aromatic ring with R⁶, or adjacent radicals R⁴ form an aliphatic or aromatic ring, and] R⁷ is a